February 23, 2015

Zacks Small-Cap Research

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Interleukin Genetics (ILIU-OTC)

ILIU: Capital Raise Provides Runway for PerioPredict Roll-Out

Current Recommendation	**Outperform**
Prior Recommendation	N/A
Date of Last Change	03/28/2011
Current Price (02/23/15)	$0.17
Target Price	**$0.60**

OUTLOOK

Key UofM PST (periodontal disease) test study results were overwhelmingly positive and published in June 2013. Dental plans are now covering cost of test. PerioPredict launched in early 2014 and indications are that feedback from dental providers and patients is positive. Game plan is to broaden commercial footprint and increase number of patients enrolled in plans covering the test. Company talking with other insurers, dental groups and employers about adopting the test. ILIU has been very active in building awareness and in sales/mktg while conserving resources. Recent $10M capital raise should help catalyze PerioPredict roll-out.

Another high potential pipeline test, for OA, also addresses increasing demand for personalized medicine and companion diagnostics. Game plan is to collaborate with a partner to bring the test to mrkt - discussions have already been initiated.

SUMMARY DATA

52-Week High	**$0.46**
52-Week Low	**$0.05**
One-Year Return (%)	**-48.53**
Beta	**1.55**
Average Daily Volume (sh)	**78,947**
Shares Outstanding (mil)	**173**
Market Capitalization ($mil)	**$29**
Short Interest Ratio (days)	**3.49**
Institutional Ownership (%)	**0**
Insider Ownership (%)	**27**
Annual Cash Dividend	**$0.00**
Dividend Yield (%)	**0.00**
5-Yr. Historical Growth Rates	
Sales (%)	**5.0**
Earnings Per Share (%)	**N/A**
Dividend (%)	**N/A**
P/E using TTM EPS	**N/A**
P/E using 2014 Estimate	**N/A**
P/E using 2015 Estimate	**N/A**
Zacks Rank	**N/A**

Risk Level	**High,**
Type of Stock	**Small-Growth**
Industry	**Med-Biomed/Gene**

ZACKS ESTIMATES

Revenue
(in '000s of $)

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2013	487 A	852 A	419 A	671 A	2,430 A
2014	488 A	529 A	472 A	516 E	2,005 E
2015					5,502 E
2016					11,805 E

Earnings per Share

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2013	-$0.03 A	-$0.02 A	-$0.02 A	-$0.02 A	-$0.08 A
2014	-$0.01 A	-$0.01 A	-$0.01 A	-$0.01 E	-$0.05 E
2015					-$0.03 E
2016					-$0.02 E

Zacks Projected EPS Growth Rate - Next 5 Years % **N/A**

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$10 Million Capital Raise
ILIU recently announced $10 million (gross) in additional capital was raised. $5 million of which comes via the the sale of 50.1 million shares of common stock (at $0.1003/share) with 100% warrant coverage and $5 million from a 45-month loan. Bay City Capital, a major life sciences investment firm with approximately $1.3 billion in committed capital, was the majority investor in the $5 million equity raise taking 53% (26.5M shares). The loan comes from Horizon Technology Finance Corporation, is payable in 45 monthly installments (interest only for first 15 months) and bears interest at 1-month LIBOR plus 8.50%.

ILIU exited Q3 with $2.6 million in cash and equivalents and has averaged a quarterly burn of about $1.7 million in the first nine months of 2014. Assuming a current cash balance of approximately $10 million, this represents roughly 18 months worth of operating funds – which provides a fairly sizeable runway for ILIU to ramp up its roll-out of PerioPredict.

ILIU Building Out Companion Diagnostics Portfolio
Interleukin Genetics'(ILIU) Heart Health Genetic Test was used in a clinical trial to assess whether interleukin-1 (IL-1) genotype status can help predict risk of coronary artery disease and cardiovascular events. A manuscript of the study, titled *Pro-Inflammatory Interleukin-1 Genotypes Potentiate the Risk of Coronary Artery Disease and Cardiovascular Events Mediated by Oxidized Phospholipids and Lipoprotein (a)*, was published in the May 2014 issue of the Journal of the American College of Cardiology.

IL-1 genotypes oxidized phospholipids (OxPLs) and lipoprotein (Lp)(a) levels were measured in 499 patients. OxPLs and Lp(a) are inflammatory mediators, higher levels of which are associated with a higher risk of cardiovascular events. Results of the study showed a link between IL-1 genotype status, as measured by Interleukin's Heart Health Genetic Test, OxPLs, LP(a) and risk of coronary artery disease (CAD).

Success of this study apparently resulted in a relationship with Isis Pharmaceuticals (ISIS) whereby ILIU will provide genetic testing using a panel of its genetic tests for a phase II study for Isis' ISIS-APO(a), which is being developed for the treatment of patients with high lipoprotein ((LP)(a)).

While Interleukin's major focus remains with commercialization of its PerioPredict genetic test for periodontal disease, the company has been very vocal about looking to expand its companion diagnostics platform. We view this relationship with Isis as a significant step in that direction.

Interleukin also has other high potential products, including an osteoarthritis (OA) genetic test, that could hold substantial promise in companion diagnostic/personalized medicine. A paper with findings of the company's (in collaboration with Univ of North Carolina) 1,154-patient study validating the test as a predictor of progression of knee osteoarthritis was published in the online version of Osteoarthritis and Cartilage in 2013. The study found that a specific gene pattern was indicative of increased risk of progression of knee osteoarthritis to a severe state. This was particularly true for individuals with high body mass index. Interleukin has indicated in the recent past that their game plan with the OA test includes looking for a commercialization partner. We think the test could potentially have enormous potential value as a companion diagnostic in enrollment selection of clinical studies for the development of drugs to treat osteoarthritis, currently a huge unmet need.

Q3 2014: Success In Awareness-Building Should Benefit Adoption of PerioPredict

On November 14, 2014 Interleukin reported financial results for the third quarter ending September 30, 2014. While revenue came in moderately below our number, continued diligence on expense control benefitted OpEx even more than we had been expecting. The net result was net income and cash burn coming in better than what we had been anticipating.

Importantly on the operational front the company continues to make progress, particularly as it relates to building awareness about PerioPredict and its benefits to providers, patients, payors and employer groups. The company has been fairly aggressive in that regard and the last few months were no exception. And while gauging the success of awareness-building may be somewhat subjective, there have been some clear objective results that point towards real traction in spreading the word about PerioPredict to the dental community. Over the recent past these have included the published clinical trial data of PerioPredict in the Journal of Dental Research and the

Journal of Periodontal Research and management presentations at a long list of major industry conferences and events.

ILIU further bolstered these efforts over the last few months and scored additional significant recognition. This included receiving the 2014 DrBiscupid Dental Excellence Award for PerioPredict as the "Best New Hygienist Product" in October and the authors (including ILIU's own Dr. Ken Kornman and Dr. Lynn Doucette-Stamm) of the PerioPredict manuscript that was published in the Journal of Dental Research receiving the Clinical Research Award at the American Academy of Periodontology (AAP) Annual Meeting. DrBiscupid is widely followed and recognized in the dental industry and has the highest readership blog in the industry. The Clinical Research Award is given for a published manuscript that has direct clinical relevance to periodontics. In addition to these awards. Dr. Kornman was chosen a keynote panelist at the AAP meeting for a session related to the future of periodontology.

As we have noted in our ongoing coverage of ILIU, we think these awareness-building efforts are a key component of the company's marketing and sales efforts. And these early successes with gaining recognition at key-opinion-leader levels indicate that there is real interest in PerioPredict from the high-level knowledge base in dentistry and periodontology. This, we believe, has real potential to influence decision-making at the clinical, payor and employer levels and to drive adoption of PerioPredict.

And while uptake likely remains very moderate, this flattish initial adoption curve was not unexpected. As we noted in our prior update, indications continue to be that early feedback is positive and volume of tests being processed is increasing (although still at a relatively low overall level). Management again indicated that dental offices with ten or more patients with insurance plans that cover the test are using PerioPredict "at a high rate." So while specifics relative to feedback from patients, payers and providers and quantitative metrics such number of enrollees, plans sold and plans up for renewal have yet to be disclosed, we continue to interpret the anecdotal information as very positive for the initial roll-out of PerioPredict.

With this being a novel product with a novel application, we continue to expect the roll-out to be measured as awareness-building may be drawn out and insurance plan renewals are in 6-month increments. Early indications are, however, that substantive progress is being made on both the education-side (to payers, patients, employers and dental practices) and on the enrollment end. The education message to payers and employers is that PerioPredict can lower costs as a result of fewer dental visits, while the patient is afforded better dental care. We think this message is already and will continue to resonate, although as noted, it may take some time.

Revenue
Q3 revenue of $472k was up 13% yoy but below our $575k estimate. Included in the revenue number was $86k in "breakage" - related to an accounting change that ILIU began to recognize in Q4 2013 and allows for the recognition of years-earlier deferred revenue from test kits that have yet to be sent back to ILIU for processing (i.e. – given that it's unlikely these test kits will ever be returned for processing – which is when ILIU typically recognizes revenue - ILIU can go ahead and recognize this as revenue).

GM / Operating Expenses / EPS
Q3 GM was 24%, up from just 13% in the year-earlier period. GM in the most recent quarter benefitted from a greater percentage of higher-margin royalty revenue. We continue to expect GM to widen as the PerioPredict test becomes a larger portion of overall revenue. Operating expenses were $1.6M, well below our $1.8M estimate and reflecting ILIU's efforts to conserve cash.

Net loss and EPS were $1.5M and ($0.01), compared to our $1.6M loss and ($0.01) estimates.

Operational Update
All eyes and ears continue to be on details of the roll-out of PerioPredict. While management has not provided specifics in terms of patient enrollment numbers in plans covering the cost of the test nor the number of tests shipped to-date, more qualitative comments on the last several earnings calls have us encouraged that the initial launch is meeting or exceeding expectations. Importantly, management has indicated that utilization of the test by dentists has been strong.



SOURCE: Interleukin Genetics

The test officially became covered by dental insurance when plans from Renaissance Health were introduced on January 1, 2014 marking a significant milestone for Interleukin. ILIU has structured the roll-out into multiple phases. Dentists with patients covered by these Right-Sized Dental policies in the initial roll-out began to receive letters in November 2013 informing them that certain of their patients are covered by these plans. This initial phase also included bringing on training staff to ensure dental practices know how to properly use the test. ILIU noted on the Q4 2013 call that in January 2014 they shipped PerioPredict test kits to approximately 600 dentists (mostly in Michigan) with patients covered by Right-Sized policies. The company noted on the Q2 2014 call that they are now engaged with 650 dental offices. ILIU has already begun receiving tests back for processing and has been reimbursed for the tests that they have received. Anecdotal feedback from both patients and dental providers has been positive.

Follow-on phases of the roll-out encompass Renaissance (RHSC) enrolling patients in plans that come up for renewal in January 2015. It also involves expansion to insurance carriers besides Renaissance. As a reminder, in November 2013 ILIU and Renaissance amended the terms of their agreement. Included in the amendment was removal of a provision that ILIU would only offer the test exclusively to RHSC affiliates for one year following the date that RHSC affiliates first offered these plans.

On the recent conference calls management noted that they have been in active discussions with other insurance carriers in their quest to expand reimbursement of the test and have recently ramped up these efforts. ILIU has recently broadened their scope and is talking with benefits brokers and self-insured regional dental groups, along with insurance carriers about using PerioPredict. And while RHSC/Delta Dental is the largest dental insurance provider, with approximately 58 million covered lives, the dental insurance market is highly consolidated - with only six companies (including Delta) owning about 70%+ of all covered lives. This potentially affords ILIU a captive audience to market to, particularly as payers look for competitive differentiation. The potential for PerioPredict to lower costs for both payers and employers offers a compelling marketing message.

And ILIU's marketing efforts are not just targeted at payers but also has a significant focus on large employer groups as well. With employers having become ever-more concerned with rising healthcare costs but perhaps loath to compromise employee health coverage, PerioPredict could offer a particularly attractive option. ILIU has clearly recognized the opportunity that this could present and is active in marketing directly to employer groups.

We expect an ongoing effort on the part of ILIU in terms of building awareness about the test and the benefits to patients, dentists, insurance carriers and employers. As we have reported in the recent past, the company has been very active on this front which we think likely benefitted the initial launch of the test. Key will be to maintain this momentum and broaden the message as ILIU looks to expand their commercialization footprint. While this, along with additional marketing, sales and training resources will almost certainly keep operating expenses somewhat elevated over the near term, the expectation is that these investments will recouped in fairly short order with a steepening in the revenue growth rate.

Management has been very active on awareness-building activities related to PerioPredict since its launch and the last few months were no exception. And while gauging the success of awareness-building may be somewhat subjective, there have been some clear objective results that point towards real traction in spreading the word about

PerioPredict to the dental community. Over the recent past these have included the published clinical trial data of PerioPredict in the Journal of Dental Research and the Journal of Periodontal Research and management presentations at a long list of major industry conferences and events.

ILIU further bolstered these efforts over the last few months and scored additional significant recognition. This included receiving the 2014 DrBiscupid Dental Excellence Award for PerioPredict as the "Best New Hygienist Product" in October and the authors (including ILIU's own Dr. Ken Kornman and Dr. Lynn Doucette-Stamm) of the PerioPredict manuscript that was published in the Journal of Dental Research receiving the Clinical Research Award at the American Academy of Periodontology (AAP) Annual Meeting. DrBiscupid is widely followed and recognized in the dental industry and has the highest readership blog in the industry. The Clinical Research Award is given for a published manuscript that has direct clinical relevance to periodontics. In addition to these awards. Dr. Kornman was chosen a keynote panelist at the AAP meeting for a session related to the future of periodontology.

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As the majority of the ~600+ practices that ILIU has already shipped test kits reside in just Michigan, geographic expansion via new RHSC policies and through agreements with other insurance carriers/brokers/dental groups could potentially ramp the covered patient base fairly rapidly (although we continue to expect the roll-out to be a progression with the initial focus on awareness-building). In April ILIU received approval from the NYS Department of Health to offer and process PerioPredict - with this approval ILIU can now offer the test in all 50 states.

As we noted in our previous updates, while we now do not expect significant revenue related to processing of the PerioPredict test during 2014, the fact that policies covering the test are in place and the roll-out is now underway (and seemingly successful) are important milestones and indicative that meaningful progress has been made over the last several months. We continue to expect a much more meaningful contribution from the test in 2015.

Product Update

We think management remains intently focused not only near-term commercialization of their late-stage pipeline but also on reviving the recent lagging sales of their weight management test. While the main and most important focus right now is with the ongoing roll-out of the PerioPredict test, the osteoarthritis test which could have enormous potential, particularly (at least initially) as a companion diagnostic in drug development clinical trials, could be next in-line as a revenue driver for ILIU.

> Weight Management Test: per the agreement signed in 2012 with Amway Europe, the test became available in certain parts of Europe. ILIU receives a royalty for each test sold. Relative to the Amway (U.S.) bundled weight loss product, while it's currently unknown how this may affect sales over the long term, management remains focused on reviving growth of the weight management test (and the other Inherent Health products).

> Osteoarthritis (OA) Test: the game plan continues to be to collaborate with a partner to bring the test to market. A paper with findings of the company's (in collaboration with Univ of North Carolina) 1,154-patient study validating the test as a predictor of progression of knee osteoarthritis was published in the online version of Osteoarthritis and Cartilage. The study found that a specific gene pattern was indicative of increased risk of progression of knee osteoarthritis to a severe state. This was particularly true for individuals with high body mass index. While ILIU continues to be intently focused on commercialization of PerioPredict, their current game plan with the OA test includes looking for a commercialization partner. The test could have enormous potential value as a companion diagnostic in enrollment selection of clinical studies for the development of drugs to treat osteoarthritis, currently a huge unmet need.

> Periodontal Disease Test (PerioPredict or PST): As a reminder, positive top-line clinical trial data of their PST test was released in early August 2012. In February 2013 ILIU penned the initial agreement with Renaissance Health Service Corp (RHSC) relative to reimbursement of the test (this agreement was slightly modified in November). The dental plans covering the PST test, which are called "Right-Sized Dental" were introduced in January 2014 and have already began reimbursing for the test.

ILIU is approaching the roll-out in several phases. Dentists with patients covered by these Right-Sized Dental policies in the initial roll-out began to receive letters in November 2013 informing them that certain of their patients are covered by these plans. This initial phase also included bringing on training staff to ensure dental practices

know how to properly use the test. ILIU noted on the Q4 call that in January they shipped PerioPredict test kits to approximately 600 dentists (mostly in Michigan) with patients covered by Right-Sized policies. The company noted on the Q2 2014 call that they are now engaged with 650 dental offices. ILIU has already begun receiving tests back for processing and has been reimbursed for the tests that they have received.

Follow-on phases of the roll-out encompass Renaissance (RHSC) enrolling patients in plans that come up for renewal in January 2015. It also involves expansion to insurance carriers and other potential partners besides Renaissance. As a reminder, in November ILIU and Renaissance amended the terms of their agreement. Included in the amendment was removal of a provision that ILIU would only offer the test exclusively to RHSC affiliates for one year following the date that RHSC affiliates first offered these plans.

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And ILIU's marketing efforts are not just targeted at payers but also has a significant focus on large employer groups as well. With employers having become ever-more concerned with rising healthcare costs but perhaps loath to compromise employee health coverage, PerioPredict could offer a particularly attractive option. ILIU has clearly recognized the opportunity that this could present and is active in marketing directly to employer groups.

The company had previously began preparing for the roll-out which included increasing processing throughput of their lab to handle the anticipated increase in demand.

Interleukin has also had a dedicated focus on building awareness about PerioPredict which almost certainly benefitted the early success of the launch. The company recently hired a Chief Marketing Officer to spearhead the introduction of the test and to generate early awareness. These efforts have included a guest editorial by ILIU published in August 2013 in the Journal of the American Dental Association, which reaches over 200k dentists, titled *Personalized Medicine Enters Dentistry: What Might This Mean For Clinical Practice.* The company has also been and will continue to be very active in attending and presenting at key dental industry conferences and events to help their awareness building efforts. This includes recent presentations at the Annual Meeting of the American Association of Dental Insurance Consultants, the American Academy of Periodontology and at the Personalized Medicine World Conference.

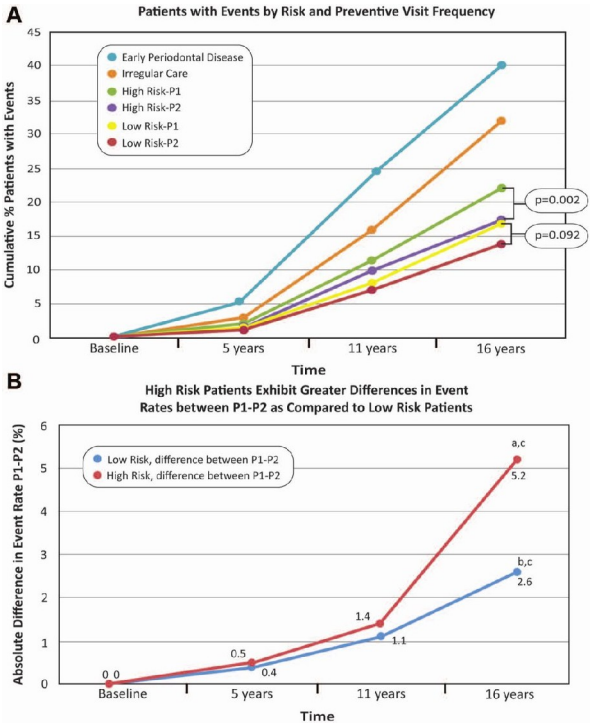
University of Michigan PST Study (a refresher)
In August 2010 Interleukin announced an agreement with the University of Michigan for a large study to test whether certain risk factors, including genetic variations, can help guide better medical intervention of periodontal disease and improve patient outcomes. Funding for the study was provided by Renaissance Health Service, parent company of a large and diverse set of insurance companies focused on dental health. A new version of Interleukin's PST test was used in the study for identification of predictive risk factors of periodontal disease to confirm results of earlier studies. The prospective study examined 16 years worth of data from over 5,000 patients taken from a large dental claims database. The hypothesis for the study was to determine whether more than one dental cleaning per year is value-added for low risk patients and how many cleanings are optimal for high risk patients. Primary endpoint of the study was tooth loss at 10 and 15 years. The study was the largest ever done to evaluate the application of genetic information for the prevention of periodontal disease.

The study commenced in late 2010 and top-line data was released in August 2012. The data showed exactly what Interleukin had hoped, that high risk patients are likely to benefit from more than one cleaning per year while low risk patients are not. Specifically the data showed that there was no significant difference between two dental cleanings and one dental cleaning in reducing the number of tooth extractions in the low-risk patient population (13.8% vs. 16.4%, 95% CI, p=0.092). By contrast there was a significant difference between two dental cleanings and one dental cleaning in reducing the number of tooth extractions in the high-risk patient population (16.9% vs. 22.1%, p=0.002).

Per the trial protocol, high risk were categorized as having one or more of the following risk factors; smokers, diabetic or interlukin-1 genotype (ie - PST test positive). Low-risk was categorized has having none of these risk factors. Of particular interest is that the data also shows a highly significant ($p<0.001$) correlation between the

number of positive risk factors and extractions - implying that all risk factors (i.e. - including PST) are indicative of risk of tooth loss.

In early June 2013 the study, titled, *Patient Stratification for Preventive Dental Care,* was published in the online version of the Journal of Dental Research.



Add'l Data Published in Journal of Periodontal Research

Additional positive data relative to the utility of PerioPredict was published in the online edition of the Journal of Periodontal Research in early April. The data relates to evidence that PerioPredict can stratify the risk of periodontal disease in multiple ethnicities. The study, titled *Association of interluekin-1 gene variations with moderate to severe chronic periodontitis in multiple ethnicities* included over 1,700 patients of different ethnicities including Caucasians, African Americans, Hispanics and Asians (Chinese). Results of the study indicated that PerioPredict has predictive utility between variations in the IL-1 gene and risk of moderate to severe periodontitis, regardless of ethnicity. In addition the study demonstrated that PerioPredict was able to identify a significant percentage of patients that were at increased risk of periodontitis yet would not have been classified as such had they not been tested with PerioPredict.

This study supplements the pivotal UofM study, results of which were published in June 2013 in the Journal of Dental Research. That study, which included data from over 5,000 patients, showed that the presence of the IL-1 gene is a risk factor for developing periodontitis and that the PerioPredict test has utility in determining the optimal number of dental cleanings a particular patient should have each year (based on the presence of IL-1). The UofM study was instrumental in gaining reimbursement of PerdioPredict from Renaissance Health and has facilitated the launch of the test. We expect the recent data from the ethnicity study to provide additional significant support for use of the test as it indicates that PerioPredict has utility across multiple ethnicities.

PST Test market:. Approximately 200 million Americans go to their dentist every year, representing about 400 million total visits with 75% related to regular exams and cleanings. Based on the large market size, the prevalence and potential seriousness of periodontal disease, support from clinical studies that the PST test works, vast distribution (via Renaissance) and support from significant use in clinical practice we think that the test may offer a multi-million dollar opportunity for Interleukin. Using rough estimates the periodontal disease market could be worth as much as $8 billion to Interleukin (assumes 200MM tests at $40 net (our estimate) to Interleukin per test). ILIU has noted that since the initial roll-out that total reimbursement per test is in the range of $125-$200. Capturing just 10% of this (which might be very conservative) equates to an $800 million potential market. Renaissance Health

alone, through its family of companies including Delta Dental, touches as many as 58 million covered lives, which is a great start.

The amended agreement with RHSC, which became effective November 2013, allows ILIU to also immediately shop the test to other insurance carriers, which instantly expanded the potential geographic commercial footprint for PerioPredict.

We note that ILIU already had a similar PST test commercialized but that the cost of the test (~ $150) is borne by the consumer, which limits its use. Reimbursement from dental insurers could be a huge catalyst to driving demand and adoption for the test - as such, this agreement with RHSC (as well as potential similar agreements with other carriers) could be the beginning of a new inflection point for ILIU. Periodontal disease is preventable and treatable and if diagnosed earlier, the better likelihood of improved outcomes. The test has already been used over 10,000 times in clinical practice. Interleukin notes in their literature that its PST test is one of the top ten genetic tests in terms of volume and one of the first of a new generation of predictive genetic tests for common diseases in medicine.

OUTLOOK / RECOMMENDATION

We continue to believe that the major near and mid-term growth driver of the company lies with PerioPredict. We think their legacy product suite will experience only flat to moderately positive sales growth, which is unchanged from our recent previous assumptions. We have yet to model any contribution from other pipeline products including the OA test, which could provide some upside to our longer-dated estimates.

While we expect to see additional revenue from processing of PerioPredict in 2014, we continue to model only modest contribution from this test in 2014. We expect a greater rate of revenue growth to materialize in 2015 as ILIU begins to realize benefits of increased patient enrollments from mid and year-end plan renewals.

We look for revenue and EPS of $2.0 million / ($0.05) and $5.5 million / ($0.03) in 2014 and 2015, respectively. We have updated our financial model and related discounted cash flow model to account for the additional interest expense and significant increase in the share count from the recent stock sale (while we had modeled an expected increase, we did not anticipate this level of share increase). This has had the effect of moving the valuation from $0.75/share to $0.60/share. We are maintaining our Outperform rating.

FINANCIAL MODEL

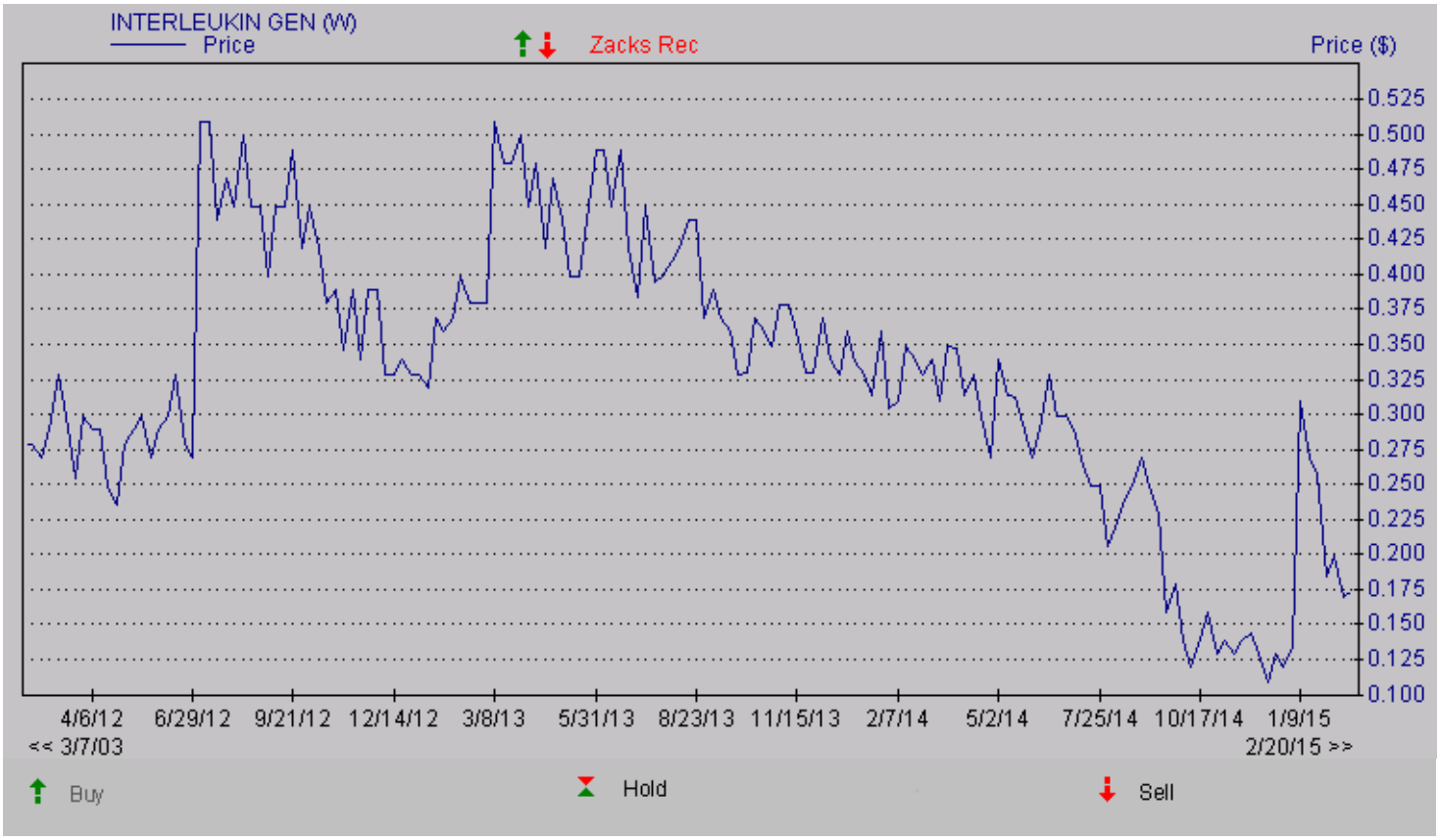
Interleukin Genetics, Inc.

	2013 A	Q1A	Q2A	Q3A	Q4E	2014 E	2015 E	2016 E	2017 E
Genetic testing	$2,168.7	$420.3	$483.2	$439.4	$478.0	$1,820.9	$5,342.0	$11,461.0	$14,908.0
YOY Growth	*0.7%*	*-13.0%*	*-43.1%*	*6.8%*	*12.6%*	*-16.0%*	*193.4%*	*114.5%*	*30.1%*
Other	$260.9	$67.2	$45.4	$32.8	$38.2	$183.6	$160.3	$343.8	$447.2
Total Revenues	$2,429.6	$487.6	$528.6	$472.2	$516.2	$2,004.6	$5,502.3	$11,804.8	$15,355.2
YOY Growth	*9.5%*	*0.0%*	*-38.0%*	*12.7%*	*-23.1%*	*-17.5%*	*174.5%*	*114.5%*	*30.1%*
Cost of Revenues	$1,632.5	$394.8	$361.7	$358.6	$351.0	$1,466.1	$3,411.4	$6,787.8	$8,445.4
Gross Income	$797.1	$92.8	$166.8	$113.6	$165.2	$538.4	$2,090.9	$5,017.1	$6,909.9
Gross Margin	*32.8%*	*19.0%*	*31.6%*	*24.1%*	*32.0%*	*26.9%*	*38.0%*	*42.5%*	*45.0%*
R&D	$721.6	$209.2	$215.5	$242.1	$221.4	$888.2	$884.0	$1,148.0	$1,347.0
% R&D	*29.7%*	*42.9%*	*40.8%*	*51.3%*	*42.9%*	*44.3%*	*16.1%*	*9.7%*	*8.8%*
R&D QTDP Grant	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
SG&A	$6,564.8	$1,526.6	$1,506.1	$1,305.6	$1,422.0	$5,760.2	$6,402.0	$6,856.0	$7,232.3
% SG&A	*270.2%*	*313.1%*	*284.9%*	*276.5%*	*275.5%*	*287.4%*	*116.4%*	*58.1%*	*47.1%*
Amortization	$109.3	$23.5	$23.5	$23.5	$23.5	$94.1	$140.0	$165.0	$165.0
Operating Income	($6,598.5)	($1,666.5)	($1,578.3)	($1,457.7)	($1,501.7)	($6,204.1)	($5,335.1)	($3,151.9)	($1,834.5)
Operating Margin	*-271.6%*	*-341.8%*	*-298.6%*	*-308.7%*	*-290.9%*	*-309.5%*	*-97.0%*	*-26.7%*	*-11.9%*
Total Other income	($459.4)	$2.0	$1.6	$0.9	$0.8	$5.3	($480.0)	($500.0)	($500.0)
Pre-Tax Income	($7,057.9)	($1,664.5)	($1,576.6)	($1,456.8)	($1,500.9)	($6,198.8)	($5,815.1)	($3,651.9)	($2,334.5)
Taxes	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Tax Rate	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*	*0.0%*
Net Income	($7,057.9)	($1,664.5)	($1,576.6)	($1,456.8)	($1,500.9)	($6,198.8)	($5,815.1)	($3,651.9)	($2,334.5)
YOY Growth	*37.8%*	*38.5%*	*-11.2%*	*-33.1%*	*-21.5%*	*-12.2%*	*-6.2%*	*-37.2%*	*-36.1%*
Net Margin	*-290.5%*	*-341.4%*	*-298.3%*	*-308.5%*	*-290.7%*	*-309.2%*	*-105.7%*	*-30.9%*	*-15.2%*
EPS (continuing ops)	($0.08)	($0.01)	($0.01)	($0.01)	($0.01)	($0.05)	($0.03)	($0.02)	($0.01)
YOY Growth	*-44.0%*					*-35.7%*	*-33.8%*	*-42.2%*	*-40.8%*
Diluted Shares O/S	90,450	122,482	122,516	122,548	126,600	123,537	175,000	190,000	205,000

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